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Cancer Mortality Excess in Counties of Missouri, Iowa, Nebraska, and Kansas Part 2. Appendix

Kansas Univ. Coll. of Health Sciences and Hospital, Kansas City

Prepared for

Environmental Protection Agency, Kansas City, MO

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CANCER MORTALITY EXCESS IN COUNTIES OF MISSOURI, IOWA, NEBRASKA, AND KANSAS

PART II APPENDIX

EPA CONTRACT K0575NTEX
(KUMC Grant 8960-01)

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TABLE A1

Cancer Deaths Among Whites by Sex and Site, Analyzed According to 412 Individual Counties, Four State Region, 1968-1977.

Site (ICDA-8)	1968-1977 White Males (WM)	1968-1977 White Females (WF)
1. Total Malignancies (140-209)	96,503	80,645
2. Stomach (151)	3,862	2,605
3. Large intestine, except rectum (153)	9,700	11,631
4. Rectum and rectosigmoid junction (154)	2,721	2,307
5. Biliary passages and liver (155, 156)	1,473	2,124
6. Pancreas (157)	5,059	4,195
7. Trachea, bronchus, and lung (162)	28,850	6,773
8. Kidney (189)	2,336	1,484
9. Bladder (188)	3,505	1,344
10. Brain and other parts of nervous system (191, 192)	2,479	1,928
11. Other, and unspecified sites (148, 152; 158, 159, 163, 184, 187, 195, 199)	4,722	5,015
12. Breast (174)	N/A	15,419
13. Cervix uteri (180)	0	2,695
14. Corpus uteri, etc. (181, 182)	0	2,934
15. Ovary (183)	0	5,534
16. Prostate (185)	10,332	0

TABLE A2

Cancer Deaths Among Whites by Sex and Site,
Analyzed According to 45 County Groups,
Four State Region, 1968-1977.

Site (ICDA-8)	1968-1977 White Males (WM)	1968-1977 White Females (WF)
1. Lip (140)	125	14
2. Salivary gland (142)	216	128
3. Nasopharynx (147)	170	87
4. Other mouth and throat (141, 143, 144, 145, 146, 149)	1,795	663
5. Esophagus (150)	1,872	571
6. Nose, nasal cavities, and sinuses (160)	198	117
7. Larynx (161)	1,153	153
8. Melanoma of skin (172)	959	787
9. Other skin (173)	504	304
10. Eye (190)	85	85
11. Thyroid gland (193)	191	321
12. Other endocrine glands (194)	115	108
13. Bone (170)	543	385
14. Connective tissue (171)	444	430
15. Hodgkin's Disease (201)	877	608
16. Lymphosarcoma and Reticulosarcoma, etc. (200, 202)	2,928	2,800
17. Multiple myeloma (203)	1,353	1,229
18. Leukemia (204, 205, 206, 207)	4,864	3,618
19. Breast (174)	97	N/A
20. Testis (186)	401	0
21. Other blood (208, 209)	503	368

Total White Population by County, Missouri, 1970 and 1975

COUNTY ID	COUNTY NAME	Total White Population			
		1970		1975	
		WM	WF	WM	WF
1	ADAIR	10,858	11,277	11,134	11,960
2	ANDREW	5,875	6,077	6,575	6,749
3	ATCHISON	4,552	4,595	4,645	4,559
4	AUDRAIN	11,434	12,382	11,602	12,524
5	BARRY	9,488	10,198	10,494	11,136
6	BARTON	5,040	5,416	5,240	5,670
7	BATES	7,429	7,922	7,878	8,415
8	BENTON	4,777	4,992	5,686	5,972
9	BOLLINGER	4,458	4,392	4,876	4,833
10	BOONE	36,692	39,603	39,481	42,110
11	BUCHANAN	39,593	44,670	39,291	44,352
12	BUTLER	15,173	16,416	16,711	18,056
13	CALDWELL	4,035	4,347	4,367	4,550
14	CALLAWAY	12,005	12,131	13,100	13,012
15	CAMDEN	6,579	6,873	7,886	8,518
16	CAPE GIRARDEAU	23,077	24,832	24,432	26,026
17	CARROLL	5,893	6,412	5,691	6,331
18	CARTER	1,958	1,950	2,259	2,299
19	CASS	19,530	19,806	23,244	23,630
20	CEDAR	4,596	4,872	5,190	5,599
21	CHARITON	5,097	5,229	4,935	5,014
22	CHRISTIAN	7,500	7,847	9,487	10,070
23	CLARK	4,101	4,149	4,026	4,068
24	CLAY	60,282	62,780	65,228	66,885
25	CLINTON	5,883	6,346	6,751	7,302
26	COLE	21,209	21,960	23,220	23,569
27	COOPER	6,906	6,725	6,912	6,400
28	CRAWFORD	7,226	7,649	7,928	8,388
29	DADE	3,288	3,551	3,537	3,788
30	DALLAS	5,002	5,076	5,785	5,835
31	DAVIESS	4,064	4,354	4,243	4,523
32	DE KALB	3,581	3,755	3,903	4,035
33	DENT	5,595	5,938	6,469	6,834
34	DOUGLAS	4,595	4,727	5,436	5,601
35	DUNKLIN	15,425	16,786	16,205	17,917
36	FRANKLIN	27,004	27,913	31,117	32,246
37	GASCONADE	5,815	6,098	6,258	6,564
38	GENTRY	3,836	4,216	3,764	4,260
39	GREENE	71,787	79,181	78,491	85,997
40	GRUNDY	5,691	6,098	5,421	5,942
41	HARRISON	4,952	5,293	5,023	5,172
42	HENRY	8,760	9,538	9,317	9,950
43	HICKORY	2,240	2,286	2,770	3,021
44	HOLT	3,260	3,383	3,350	3,631
45	HOWARD	4,621	4,924	4,530	4,745
46	HOWELL	11,420	12,105	12,947	13,741
47	IRON	4,632	4,888	5,007	5,377
48	JACKSON	254,697	283,294	241,489	267,229
49	JASPER	37,000	41,736	38,251	42,854
50	JEFFERSON	52,518	52,554	60,855	60,125

MISSOURI

COUNTY ID	COUNTY NAME	Total White Population 1970 WM	1970 WF	1975 WM	1975 WF
51	JOHNSON	16,656	16,058	16,101	15,133
52	KNOX	2,746	2,932	2,698	2,903
53	LACLEDE	9,591	10,256	10,429	11,185
54	LAFAYETTE	12,726	13,068	13,570	13,890
55	LAWRENCE	11,900	12,738	13,369	14,227
56	LEWIS	5,224	5,259	5,050	5,117
57	LINCOLN	8,626	8,936	9,649	9,745
58	LINN	7,021	7,873	6,984	7,790
59	LIVINGSTON	7,122	8,012	7,168	8,174
60	McDONALD	6,012	6,365	7,754	7,945
61	MACON	7,161	7,980	7,215	8,434
62	MADISON	4,138	4,523	4,330	4,873
63	MARIES	3,500	3,376	3,650	3,523
64	MARION	12,588	14,103	12,520	13,932
65	MERCER	2,416	2,483	2,307	2,369
66	MILLER	7,386	7,706	8,144	8,355
67	MISSISSIPPI	6,264	6,861	6,168	6,700
68	MONITEAU	5,069	5,530	5,444	5,845
69	MONROE	4,418	4,702	4,462	4,923
70	MONTGOMERY	5,144	5,377	5,315	5,729
71	MORGAN	4,916	5,123	5,944	6,281
72	NEW MADRID	9,181	9,790	9,725	10,286
73	NEWTON	15,973	16,790	17,642	18,305
74	NODAWAY	11,063	11,339	10,694	10,954
75	OREGON	4,399	4,799	4,728	5,128
76	OSAGE	5,551	5,467	5,925	6,058
77	OZARK	3,151	3,118	3,542	3,570
78	PEMISCOT	9,186	9,963	8,638	9,670
79	PERRY	7,135	7,279	7,364	7,680
80	PETTIS	15,642	17,088	16,218	17,804
81	PHELPS	15,800	13,349	15,782	15,240
82	PIKE	7,687	8,047	7,894	8,187
83	PLATTE	15,992	16,061	19,625	19,441
84	POLK	7,501	7,978	8,575	9,254
85	PULASKI	34,051	14,326	23,139	14,370
86	PUTNAM	2,854	3,061	2,993	3,137
87	RALLS	3,728	3,837	4,042	4,150
88	RANDOLPH	10,120	10,876	10,477	11,172
89	RAY	8,519	8,804	9,280	9,600
90	REYNOLDS	3,052	3,055	3,251	3,281
91	RIPLEY	4,944	4,960	6,178	6,125
92	ST. CHARLES	45,749	47,002	56,768	57,651
93	ST. CLAIR	3,753	3,920	4,469	4,627
94	ST. FRANCOIS	17,589	19,253	18,641	20,125
95	*ST. LOUIS*	*437,065*	*466,746*	*435,757*	*466,264*
96	STE. GENEVIEVE	6,437	6,440	6,789	6,750
97	SALINE	11,488	12,009	11,069	11,805
98	SCHUYLER	2,250	2,410	2,341	2,514
99	SCOTLAND	2,653	2,841	2,705	2,873
100	SCOTT	14,644	15,908	15,908	16,942

MISSOURI

COUNTY ID	COUNTY NAME	Total White Population			
		1970		1975	
		WM	WF	WM	WF
101	SHANNON	3,614	3,596	3,938	3,766
102	SHELBY	3,745	4,058	3,719	3,971
103	STODDARD	11,842	12,843	12,729	13,744
104	STONE	4,903	5,141	6,195	6,653
105	SULLIVAN	3,678	3,889	3,618	3,886
106	TANEY	6,451	6,780	8,513	9,064
107	TEXAS	9,057	9,357	10,284	10,774
108	VERNON	8,909	10,074	9,109	10,553
109	WARREN	4,593	4,789	5,682	6,135
110	WASHINGTON	7,496	7,539	8,138	8,095
111	WAYNE	4,281	4,331	5,077	5,134
112	WEBSTER	7,734	7,968	9,015	9,427
113	WORTH	1,616	1,737	1,597	1,671
114	WRIGHT	6,564	7,086	7,131	7,508
115	ST. LOUIS CITY	163,473	199,168	121,276	150,074
1	STATE TOTAL	2,026,766	2,163,675	2,056,888	2,197,875

TABLE A4

Total White Population by County Group
Missouri, 1970 and 1975

County Group	Total White Population			
	1970		1975	
	WM	WF	WM	WF
1.	71,787	79,181	78,491	85,997
2.	314,979	346,074	306,717	334,114
3.	698,805	765,470	674,656	734,114
4.	41,107	42,943	43,461	45,289
5.	80,373	87,827	87,510	94,467
6.	69,241	71,757	77,646	80,417
7.	81,715	88,567	86,084	93,315
8.	54,202	57,293	59,878	62,942
9.	124,844	132,764	130,541	138,614
10.	100,509	104,970	107,215	111,569
11.	103,562	83,475	99,496	92,948
12.	73,878	77,183	86,910	91,497
13.	211,764	226,171	218,283	232,592
1. State Total	2,026,766	2,163,675	2,056,888	2,197,875

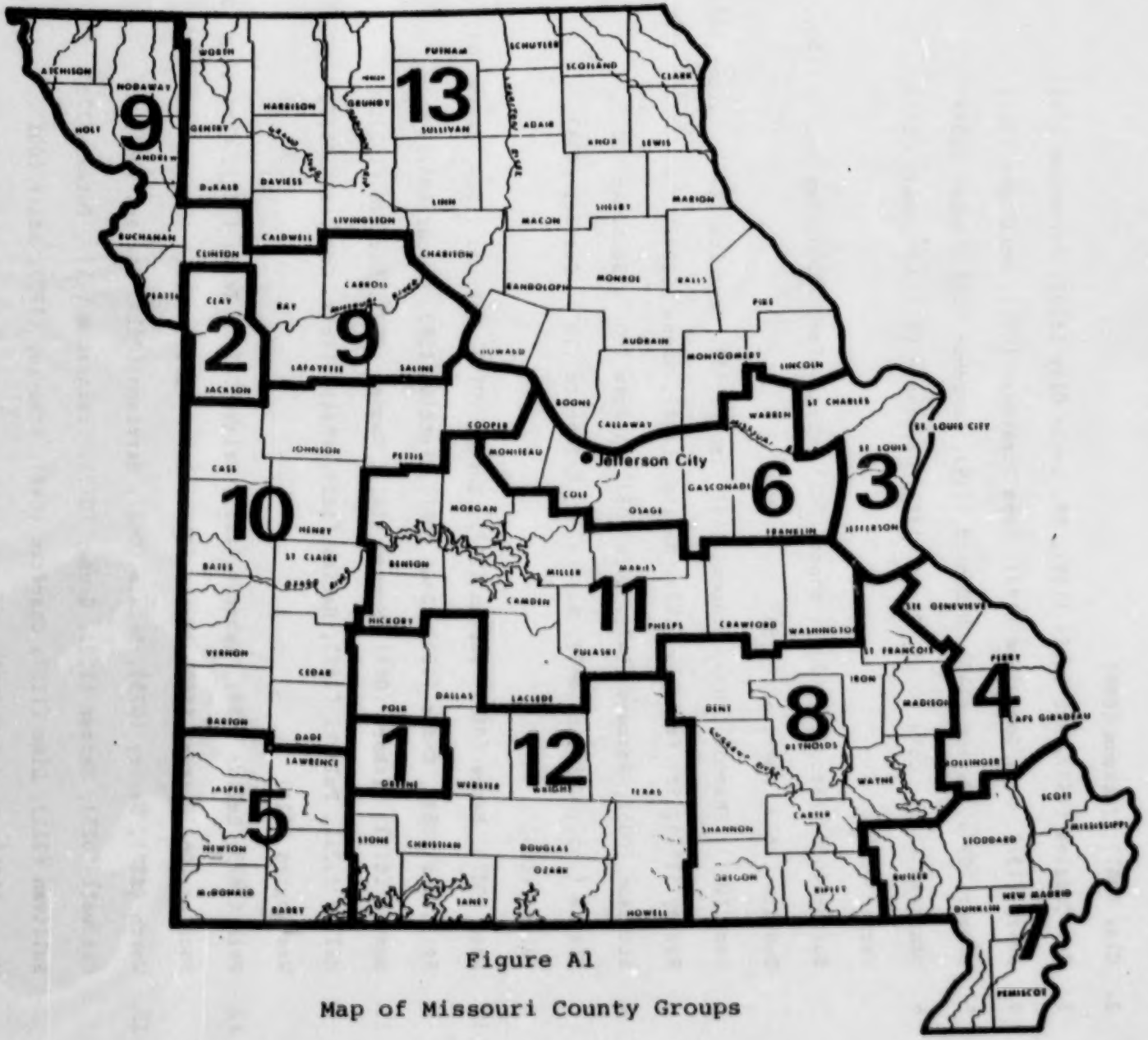

Figure A1

Map of Missouri County Groups

TABLE A5

Listing of County Groups, Including Federal County Identification Codes, Missouri

1. Greene (077)
2. Clay (047), Jackson (095)
3. St. Charles (183), St. Louis (189), St. Louis City (510), Jefferson (099)
4. Perry (157), Ste. Genevieve (193), Cape Girardeau (031), Bollinger (017)
5. Jasper (097), Newton (145), McDonald (119), Lawrence (109), Barry (009)
6. Moniteau (135), Cole (051), Osage (151), Gasconade (073), Franklin (071), Warren (219)
7. Butler (023), Stoddard (207), Scott (201), Mississippi (133), New Madrid (143), Dunklin (069), Pemiscot (155)
8. Dent (065), Shannon (203), Oregon (149), Iron (093), Reynolds (179), Carter (035), Ripley (181), St. Francois (187), Madison (123), Wayne (223)
9. Atchison (005), Nodaway (147), Holt (087), Andrew (003), Buchanan (021), Platte (165), Clinton (049), Ray (177), Lafayette (107), Carroll (033), Saline (195)
10. Cass (037), Bates (013), Vernon (217), Barton (011), Johnson (101), Henry (083), St. Clair (185), Cedar (039), Dade (057), Pettis (159), Cooper (053)
11. Benton (015), Hickory (085), Morgan (141), Camden (029), Laclede (105), Miller (131), Pulaski (169), Maries (125), Phelps (161), Crawford (055), Washington (221)
12. Polk (167), Dallas (059), Webster (225), Wright (229), Texas (215), Christian (043), Douglas (067), Stone (209), Taney (213), Ozark (153), Howell (091)
13. Worth (227), Gentry (075), DeKalb (063), Harrison (081), Daviess (061), Caldwell (025), Mercer (129), Grundy (079), Livingston (117), Putnam (171), Sullivan (211), Linn (115), Chariton (041), Schuyler (197), Adair (001), Macon (121), Randolph (175), Howard (089), Scotland (199), Knox (103), Shelby (205), Monroe (137), Boone (019), Audrain (007), Callaway (027), Clark (045), Lewis (111), Marion (127), Ralls (173), Pike (163), Lincoln (113),

TABLE A6

1968-1977 Missouri Cancer Deaths
Analyzed by Individual County

	Site (ICDA-8)	1968-1972 WM	1968-1972 WF	1973-1977 WM	1973-1977 WF
1.	Total Malignancies (140-209)	21,203	17,778	22,554	18,674
2.	Stomach (151)	832	583	725	501
3.	Large intestine, except rectum (153)	1,969	2,393	2,233	2,596
4.	Rectum and rectosigmoid junction (154)	584	541	534	526
5.	Biliary passages and liver (155, 156)	344	460	301	451
6.	Pancreas (157)	1,113	915	1,051	930
7.	Trachea, bronchus, and lung (162)	6,536	1,470	7,472	1,957
8.	Kidney (189)	478	305	518	333
9.	Bladder (188)	765	297	748	325
10.	Brain and other parts of nervous system (191, 192)	495	387	595	440
11.	Other, and unspecified sites (148, 152, 158, 159, 163, 184, 187, 195, 199)	1,275	1,297	1,489	1,526
12.	Breast (174)	N/A	3,287	N/A	3,420
13.	Cervix uteri (180)	0	740	0	604
14.	Corpus uteri, etc. (181, 182)	0	659	0	651
15.	Ovary (183)	0	1,204	0	1,200
16.	Prostate (185)	2,043	0	2,167	0

TABLE A7

1968-1977 Missouri Cancer Deaths
Analyzed by County Group

Site (ICDA-8)	1968-1972 WM	1968-1972 WF	1973-1977 WM	1973-1977 WF
1. Lip (140)	21	3	28	4
2. Salivary gland (142)	44	23	49	25
3. Nasopharynx (147)	37	17	43	24
4. Other mouth and throat (141, 143, 144, 145, 146, 149)	430	161	444	163
5. Esophagus (150)	414	117	401	146
6. Nose, nasal cavities, and sinuses (160)	40	23	39	26
7. Larynx (161)	277	35	280	44
8. Melanoma of skin (172)	196	179	248	181
9. Other skin (173)	129	72	89	59
10. Eye (190)	15	15	12	20
11. Thyroid gland (193)	34	81	33	67
12. Other endocrine glands (194)	23	26	23	15
13. Bone (170)	133	93	126	79
14. Connective tissue (171)	97	105	113	89
15. Hodgkin's Disease (201)	233	140	141	110
16. Lymphosarcoma and Reticulosarcoma, etc. (200, 202)	606	546	644	605
17. Multiple myeloma (203)	235	214	291	288
18. Leukemia (204, 205, 206, 207)	1,046	806	1,019	757
19. Breast (174)	25	N/A	19	N/A
20. Testis (186)	62	0	77	0
21. Other blood (208, 209)	89	80	121	79

TABLE A8

Average Annual 1968-1977 Missouri Cancer
Mortality Age Adjusted Rates
(sex specific: per 100,000)

Analyzed by Individual County

Site (ICDA-8)	1968-1972 WM	1968-1972 WF	1973-1977 WM	1973-1977 WF
1. Total Malignancies (140-209)	175.25	128.19	181.53	127.07
2. Stomach (151)	6.59	3.78	5.69	3.04
3. Large intestine, except rectum (153)	15.77	16.14	17.51	16.24
4. Rectum and rectosigmoid junction (154)	4.74	3.66	4.19	3.31
5. Biliary passages and liver (155, 156)	2.80	3.05	2.36	2.88
6. Pancreas (157)	9.11	6.23	8.40	5.92
7. Trachea, bronchus, and lung (162)	55.63	10.97	61.78	14.12
8. Kidney (189)	4.06	2.12	4.30	2.31
9. Bladder (188)	5.93	1.85	5.61	1.81
10. Brain and other parts of nervous system (191, 192)	4.64	3.25	5.37	3.58
11. Other, and unspecified sites (148, 152, 158, 159, 163, 184, 187, 195, 199)	10.51	8.96	11.98	9.73
12. Breast (174)	N/A	25.01	N/A	24.93
13. Cervix uteri (180)	0	6.05	0	4.61
14. Corpus uteri, etc. (181, 182)	0	4.66	0	4.32
15. Ovary (183)	0	9.14	0	8.66
16. Prostate (185)	15.22	0	15.56	0

TABLE A9

Average Annual 1968-1977 Missouri Cancer Mortality Age Adjusted Rates (sex specific: per 100,000)

Analyzed by County Group

Site (ICDA-8)	1968-1972 WM	1968-1972 WF	1973-1977 WM	1973-1977 WF
1. Lip (140)	0.16	0.02	0.21	0.02
2. Salivary gland (142)	0.35	0.15	0.39	0.17
3. Nasopharynx (147)	0.34	0.13	0.37	0.19
4. Other mouth and throat (141, 143, 144, 145, 146, 149)	3.60	1.12	3.58	1.08
5. Esophagus (150)	3.43	0.80	3.28	0.92
6. Nose, nasal cavities, and sinuses (160)	0.33	0.16	0.32	0.17
7. Larynx (161)	2.32	0.27	2.30	0.33
8. Melanoma of skin (172)	1.73	1.45	2.15	1.37
9. Other skin (173)	1.01	0.44	0.65	0.35
10. Eye (190)	0.12	0.11	0.11	0.12
11. Thyroid gland (193)	0.28	0.54	0.28	0.42
12. Other endocrine glands (194)	0.20	0.22	0.20	0.12
13. Bone (170)	1.12	0.68	1.00	0.54
14. Connective tissue (171)	0.86	0.81	0.94	0.65
15. Hodgkin's Disease (201)	2.14	1.14	1.23	0.85
16. Lymphosarcoma and Reticulosarcoma, etc. (200, 202)	5.18	3.90	5.31	4.01
17. Multiple myeloma (203)	1.92	1.48	2.35	1.85
18. Leukemia (204, 205, 206, 207)	8.84	5.92	8.43	5.20
19. Breast (174)	0.20	N/A	0.15	N/A
20. Testis (186)	0.59	0	0.71	0
21. Other blood (208, 209)	0.75	0.55	0.94	0.49

TABLE A10

Trends in Average Annual Missouri Selected Cancer Mortality Age Adjusted Rates: 1960, 1970, and 1975 (sexes combined: per 100,000)

WM	Total	Trachea, Bronchus, and lung	Large Intestine, excl. rectum	Prostate
1960	164.6	37.3	15.4	17.1
1970	186.1	58.3	17.0	16.9
1975	193.2	65.0	18.8	17.3

	Pancreas	Stomach	Bladder
1960	8.5	12.5	6.0
1970	9.7	7.1	6.5
1975	9.0	6.1	6.1

WF	Total	Breast	Large Intestine, excl. rectum	Trachea, Bronchus, and lung
1960	125.6	23.9	16.1	5.9
1970	122.1	24.1	15.2	10.5
1975	121.1	24.0	15.2	13.6

	Stomach	Cervix Uteri	Corpus Uteri
1960	6.5	8.2	6.8
1970	3.5	5.9	4.4
1975	2.8	4.5	4.1

TABLE A11

Trends in Average Annual Missouri Lung Cancer Mortality Age Adjusted Rates for White Males in Selected Counties: 1960, 1970, and 1975 (sexes combined: per 100,000)

	St. Louis City	St. Louis	Jackson	Clay
1960	54.4	43.2	44.7	41.0
1970	84.3	59.0	64.9	53.0
1975	96.6	61.4	66.9	59.5

	Platte	Buchanan	Boone	Cole
1960	30.0	39.3	30.7	30.6
1970	46.3	68.3	59.3	60.2
1975	45.4	73.0	57.7	54.5

	Pulaski	Phelps	Greene	Jasper
1960	32.8	21.2	36.8	47.2
1970	40.9	39.7	54.7	72.8
1975	63.7	87.6	61.0	88.0

	Newton	St. Charles	Dunklin
1960	37.2	35.8	35.5
1970	66.8	68.2	63.7
1975	54.1	69.3	90.8

TABLE A12

Total White Population by County,
Iowa, 1970 and 1975

COUNTY ID	COUNTY NAME	Total White Population			
		1970		1975	
		WM	WF	WM	WF
1	ADAIR	4,692	4,782	4,790	4,906
2	ADAMS	3,109	3,204	3,074	3,085
3	ALLAMAKEE	7,407	7,536	7,551	7,620
4	APPANOOSE	7,153	7,678	7,158	7,598
5	AUDUBON	4,662	4,896	4,464	4,657
6	BENTON	11,201	11,667	11,430	11,802
7	BLACK HAWK	60,268	65,712	60,257	65,475
8	BOONE	12,644	13,788	12,606	13,571
9	BREMER	11,112	11,577	11,763	12,058
10	BUCHANAN	10,788	10,951	11,023	11,256
11	BUENA VISTA	9,983	10,689	9,949	10,609
12	BUTLER	8,344	8,583	8,430	8,722
13	CALHOUN	6,772	7,463	6,471	7,279
14	CARROLL	11,109	11,820	11,426	11,847
15	CASS	8,147	8,863	8,157	8,892
16	CEDAR	8,733	8,902	8,515	8,792
17	CERRO GORDO	23,345	25,563	22,919	25,017
18	CHEROKEE	8,393	8,857	8,156	8,530
19	CHICKASAW	7,396	7,551	7,441	7,851
20	CLARKE	3,666	3,915	3,849	4,224
21	CLAY	8,799	9,640	8,848	9,997
22	CLAYTON	10,229	10,347	10,441	10,489
23	CLINTON	27,356	28,890	27,753	29,313
24	CRAWFORD	9,463	9,580	9,302	9,306
25	DALLAS	12,603	13,441	13,043	14,106
26	DAVIS	4,022	4,174	4,211	4,347
27	DECATUR	4,734	4,950	4,609	4,891
28	DELAWARE	9,311	9,472	9,521	9,619
29	DES MOINES	21,828	24,126	21,081	23,212
30	DICKINSON	6,206	6,385	6,805	6,914
31	DUBUQUE	43,911	46,673	45,170	47,721
32	EMMET	6,824	7,156	6,625	7,089
33	FAYETTE	13,211	13,554	12,941	13,382
34	FLOYD	9,646	10,192	9,713	10,357
35	FRANKLIN	6,437	6,792	6,482	6,826
36	FREMONT	4,536	4,741	4,527	4,720
37	GREENE	6,056	6,612	5,773	6,395
38	GRUNDY	6,855	7,246	6,869	7,167
39	GUTHRIE	5,950	6,290	6,216	6,506
40	HAMILTON	8,963	9,395	8,793	9,170
41	HANCOCK	6,670	6,844	6,791	6,761
42	HARDIN	10,883	11,258	10,696	11,156
43	HARRISON	7,949	8,313	8,037	8,537
44	HENRY	8,782	9,200	8,591	9,006
45	HOWARD	5,591	5,822	5,592	5,850
46	HUMBOLDT	6,132	6,377	6,154	6,328
47	IDA	4,514	4,763	4,427	4,666
48	IOWA	7,563	7,856	7,529	7,874
49	JACKSON	10,360	10,475	10,710	10,685
50	JASPER	17,292	18,126	17,692	18,525

IOWA

COUNTY ID	COUNTY NAME	Total White Population 1970 WM	1970 WF	1975 WM	1975 WF
51	JEFFERSON	7,756	7,847	7,095	7,507
52	JOHNSON	34,958	36,180	36,554	37,626
53	JONES	9,981	9,762	9,845	9,929
54	KEOKUK	6,829	7,094	6,601	6,959
55	KOSSUTH	11,320	11,586	11,359	11,580
56	LEE	20,481	21,343	19,840	20,528
57	LINN	77,600	83,444	77,526	83,999
58	LOUISA	5,261	5,441	5,351	5,707
59	LUCAS	4,847	5,311	4,964	5,258
60	LYON	6,589	6,749	6,463	6,858
61	MADISON	5,678	5,905	6,077	6,084
62	MAHASKA	10,763	11,299	10,539	11,217
63	MARION	13,126	13,084	13,767	13,397
64	MARSHALL	19,947	20,810	20,336	20,865
65	MILLS	5,889	5,957	6,315	6,354
66	MITCHELL	6,332	6,725	6,147	6,551
67	MONONA	5,868	6,186	5,767	6,106
68	MONROE	4,505	4,825	4,371	4,854
69	MONTGOMERY	6,107	6,650	6,205	6,729
70	MUSCATINE	18,081	18,947	18,847	19,655
71	O'BRIEN	8,452	9,058	8,437	9,182
72	OSCEOLA	4,216	4,323	4,166	4,295
73	PAGE	8,858	9,606	9,156	9,607
74	PALO ALTO	6,567	6,702	6,649	6,615
75	PLYMOUTH	11,903	12,347	11,728	12,333
76	POCAHONTAS	6,295	6,433	5,969	6,018
77	POLK	130,507	143,547	135,614	147,209
78	POTTAWATTAMIE	41,689	44,508	41,342	43,994
79	POWESHIEK	9,106	9,626	9,508	9,947
80	RINGGOLD	3,064	3,296	2,984	3,211
81	SAC	7,525	8,003	7,360	7,705
82	SCOTT	67,691	70,675	70,690	72,631
83	SHELBY	7,711	7,805	7,688	7,913
84	SIOUX	13,520	14,469	14,204	15,412
85	STORY	32,429	29,770	34,834	32,240
86	TAMA	9,574	9,895	9,649	9,870
87	TAYLOR	4,184	4,567	4,029	4,300
88	UNION	6,391	7,129	6,266	6,855
89	VAN BUREN	4,264	4,365	4,133	4,116
90	WAPELLO	19,773	21,977	18,591	20,633
91	WARREN	13,647	13,949	15,612	15,809
92	WASHINGTON	9,139	9,788	9,062	9,726
93	WAYNE	4,091	4,277	4,036	4,259
94	WEBSTER	22,737	24,876	21,981	24,297
95	WINNEBAGO	6,367	6,663	6,433	6,935
96	WINNESHIEK	10,787	10,893	10,832	10,748
97	WOODBURY	48,261	52,992	48,460	53,335
98	WORTH	4,398	4,547	4,396	4,468
99	WRIGHT	8,459	8,801	8,275	8,566
1	STATE TOTAL	1,355,123	1,432,719	1,370,384	1,444,698

TABLE A13

Total White Population by County Group
Iowa, 1970 and 1975

County Group	Total White Population			
	1970		1975	
	WM	WF	WM	WF
1.	60,268	65,712	60,257	65,475
2.	77,600	83,444	77,526	83,999
3.	67,691	70,675	70,690	72,631
4.	130,507	143,547	135,614	147,209
5.	48,261	52,992	48,460	53,335
6.	41,689	44,508	41,342	43,994
7.	200,950	210,739	203,666	213,168
8.	117,051	122,607	117,806	122,958
9.	144,264	149,976	145,143	150,923
10.	151,178	159,352	151,768	159,963
11.	191,012	197,642	192,320	199,203
12.	124,652	131,525	125,792	131,840
1. State Total	1,355,123	1,432,719	1,370,384	1,444,698

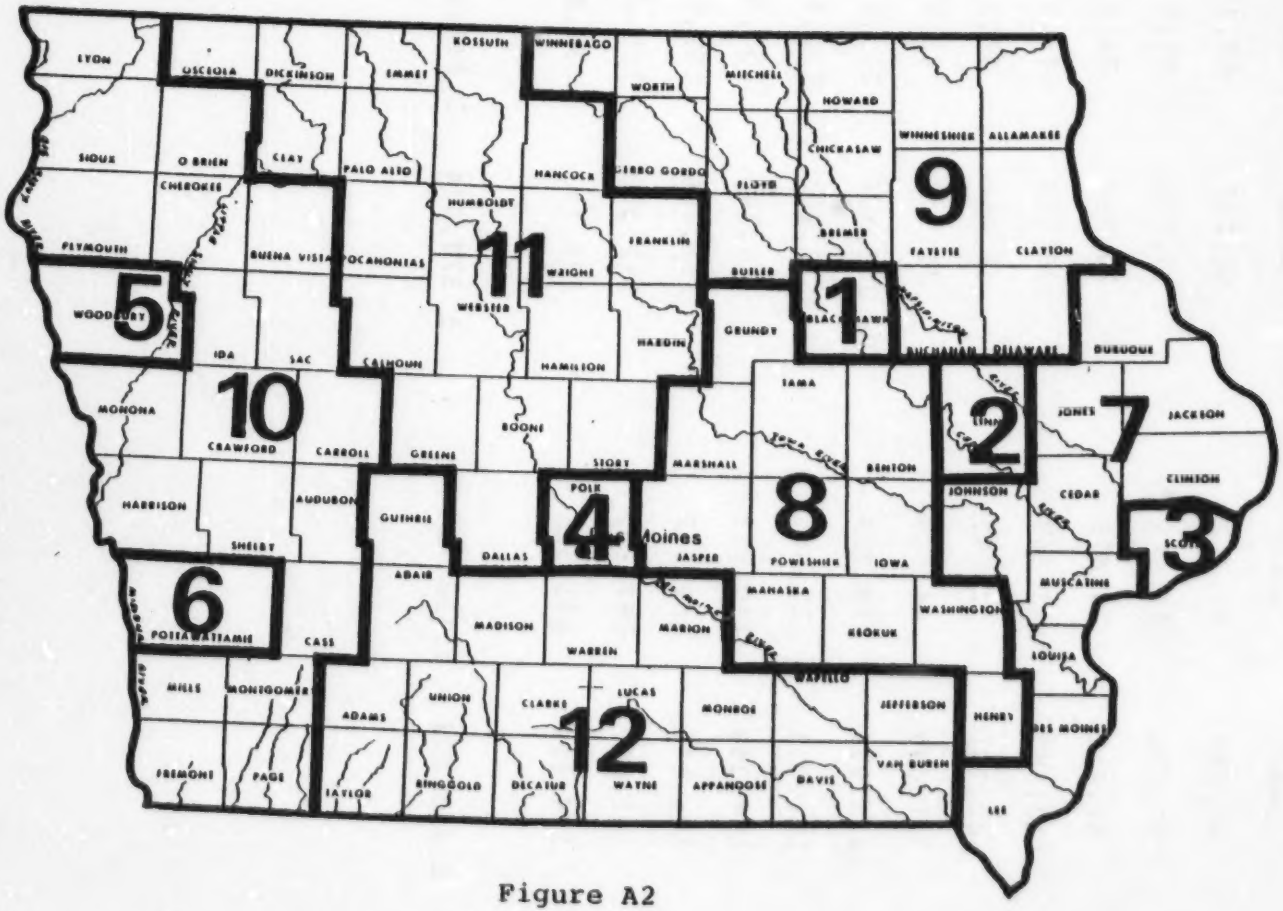

Figure A2

Map of Iowa County Groups

TABLE A14

Listing of County Groups, Including Federal County Identification Codes, Iowa

1. Black Hawk (013)
2. Linn (113)
3. Scott (163)
4. Polk (153)
5. Woodbury (193)
6. Pottawattamie (155)
7. Dubuque (061), Jones (105), Jackson (097), Clinton (045), Cedar (031), Johnson (103), Muscatine (139), Louisa (115), Des Moines (057), Lee (111)
8. Grundy (075), Marshall (127), Tama (171), Benton (011), Jasper (099), Poweshiek (157), Iowa (095), Mahaska (123), Keokuk (107), Washington (183), Henry (087)
9. Winnebago (189), Worth (195), Mitchell (131), Howard (089), Winneshiek (191), Allamakee (005), Cerro Gordo (033), Floyd (067), Chickasaw (037), Butler (023), Bremer (017), Fayette (065), Clayton (043), Buchanan (019), Delaware (055)
10. Lyon (119), Sioux (167), O'Brien (141), Plymouth (149), Cherokee (035), Buena Vista (021), Ida (093), Sac (161), Monona (133), Crawford (047), Carroll (027), Harrison (085), Shelby (165), Audubon (009), Cass (029), Mills (129), Montgomery (137), Fremont (071), Page (145)
11. Osceola (143), Dickinson (059), Emmet (063), Clay (041), Palo Alto (147), Kossuth (109), Hancock (081), Pocahontas (151), Humboldt (091), Wright (197), Franklin (069), Calhoun (025), Webster (187), Hamilton (079), Hardin (083), Greene (073), Boone (015), Story (169), Dallas (049)
12. Guthrie (077), Adair (001), Madison (121), Warren (181), Marion (125), Adams (003), Union (175), Clarke (039), Lucas (117), Monroe (135), Wapello (179), Jefferson (101), Taylor (173), Ringgold (159), Decatur (053), Wayne (185), Appanoose (007), Davis (051), Van Buren (177)

TABLE A15

1968-1977 Iowa Cancer Deaths

Analyzed by Individual County

Site (ICDA-8)	1968-1972 WM	1968-1972 WF	1973-1977 WM	1973-1977 WF
1. Total Malignancies (140-209)	13,665	11,615	14,449	12,078
2. Stomach (151)	670	463	555	358
3. Large intestine, except rectum (153)	1,411	1,740	1,606	1,918
4. Rectum and rectosigmoid junction (154)	472	379	410	323
5. Biliary passages and liver (155, 156)	208	334	261	352
6. Pancreas (157)	721	528	785	683
7. Trachea, bronchus, and lung (162)	3,611	726	4,298	962
8. Kidney (189)	375	216	335	233
9. Bladder (188)	528	189	547	202
10. Brain and other parts of nervous system (191, 192)	331	287	387	272
11. Other, and unspecified sites (148, 152, 158, 159, 163, 184, 187, 195, 199)	547	669	463	567
12. Breast (174)	N/A	2,303	N/A	2,360
13. Cervix uteri (180)	0	404	0	349
14. Corpus uteri, etc. (181, 182)	0	417	0	428
15. Ovary (183)	0	851	0	838
16. Prostate (185)	1,652	0	1,710	0

TABLE A16

1968-1977 Iowa Cancer Deaths

Analyzed by County Group

	Site (ICDA-8)	1968-1972 WM	1968-1972 WF	1973-1977 WM	1973-1977 WF
1.	Lip (140)	29	0	18	1
2.	Salivary gland (142)	32	13	32	24
3.	Nasopharynx (147)	29	8	17	15
4.	Other mouth and throat (141, 143, 144, 145, 146, 149)	241	93	213	102
5.	Esophagus (150)	288	69	286	100
6.	Nose, nasal cavities, and sinuses (160)	30	17	18	19
7.	Larynx (161)	158	19	170	24
8.	Melanoma of skin (172)	117	98	138	124
9.	Other skin (173)	57	35	72	54
10.	Eye (190)	10	12	10	13
11.	Thyroid gland (193)	45	53	22	42
12.	Other endocrine glands (194)	17	25	20	17
13.	Bone (170)	72	54	82	60
14.	Connective tissue (171)	72	74	61	56
15.	Hodgkin's Disease (201)	148	119	111	85
16.	Lymphosarcoma and Reticulosarcoma, etc. (200, 202)	439	437	466	460
17.	Multiple myeloma (203)	182	153	227	218
18.	Leukemia (204, 205, 206, 207)	759	541	714	520
19.	Breast (174)	12	N/A	11	N/A
20.	Testis (186)	69	0	74	0
21.	Other blood (208, 209)	68	45	83	56

TABLE A17

Average Annual 1968-1977 Iowa Cancer Mortality Age Adjusted Rates (sex specific: per 100,000)

Analyzed by Individual County

	Site (ICDA-8)	1968-1972 WM	1968-1972 WF	1973-1977 WM	1973-1977 WF
1.	Total Malignancies (140-209)	166.41	126.87	174.07	124.52
2.	Stomach (151)	7.73	4.41	6.43	3.12
3.	Large intestine, except rectum (153)	16.68	17.57	18.71	18.00
4.	Rectum and rectosigmoid junction (154)	5.57	3.76	4.80	3.11
5.	Biliary passages and liver (155, 156)	2.58	3.35	3.18	3.35
6.	Pancreas (157)	8.73	5.33	9.40	6.49
7.	Trachea, bronchus, and lung (162)	46.12	8.35	54.13	10.80
8.	Kidney (189)	4.66	2.37	4.15	2.44
9.	Bladder (188)	5.92	1.74	6.09	1.60
10.	Brain and other parts of nervous system (191, 192)	4.73	3.84	5.45	3.46
11.	Other, and unspecified sites (148, 152, 158, 159, 163, 184, 187, 195, 199)	6.61	6.82	5.65	5.25
12.	Breast (174)	N/A	26.73	N/A	26.27
13.	Cervix uteri (180)	0	5.04	0	4.03
14.	Corpus uteri, etc. (181, 182)	0	4.45	0	4.17
15.	Ovary (183)	0	9.97	0	9.50
16.	Prostate (185)	17.41	0	18.04	0

TABLE A18

Average Annual 1968-1977 Iowa Cancer
Mortality Age Adjusted Rates
(sex specific: per 100,000)

Analyzed by County Group

	Site (ICDA-8)	1968-1972 WM	1968-1972 WF	1973-1977 WM	1973-1977 WF
1.	Lip (140)	0.33	0	0.17	0.01
2.	Salivary gland (142)	0.39	0.12	0.36	0.25
3.	Nasopharynx (147)	0.38	0.10	0.23	0.17
4.	Other mouth and throat (141, 143, 144, 145, 146, 149)	3.08	0.97	2.66	1.05
5.	Esophagus (150)	3.65	0.74	3.57	0.98
6.	Nose, nasal cavities, and sinuses (160)	0.37	0.18	0.21	0.20
7.	Larynx (161)	2.02	0.23	2.13	0.28
8.	Melanoma of skin (172)	1.61	1.16	1.73	1.42
9.	Other skin (173)	0.67	0.33	0.81	0.44
10.	Eye (190)	0.12	0.14	0.14	0.14
11.	Thyroid gland (193)	0.55	0.54	0.27	0.37
12.	Other endocrine glands (194)	0.24	0.32	0.26	0.23
13.	Bone (170)	0.92	0.62	0.98	0.64
14.	Connective tissue (171)	0.94	0.82	0.78	0.64
15.	Hodgkin's Disease (201)	2.07	1.44	1.50	1.03
16.	Lymphosarcoma and Reticulosarcoma, etc. (200, 202)	5.49	4.89	5.86	4.79
17.	Multiple myeloma (203)	2.17	1.68	2.69	2.14
18.	Leukemia (204, 205, 206, 207)	9.46	5.93	8.65	5.39
19.	Breast (174)	0.14	N/A	0.12	N/A
20.	Testis (186)	1.03	0	0.97	0
21.	Other blood (208, 209)	0.83	0.46	0.98	0.49

TABLE A19

Trends in Average Annual Iowa Selected Cancer Mortality Age Adjusted Rates: 1960, 1970, and 1975 (sexes combined: per 100,000)

WM	Total	Trachea, Bronchus, and lung	Large Intestine, excl. rectum	Prostate
1960	156.6	29.2	15.9	19.6
1970	177.3	48.4	17.9	19.4
1975	185.6	57.1	20.2	20.0

	Pancreas	Stomach	Bladder
1960	8.6	13.4	6.6
1970	9.3	8.4	6.5
1975	10.0	6.9	6.7

WF	Total	Breast	Large Intestine, excl. rectum	Trachea, Bronchus, and lung
1960	124.1	25.0	16.4	4.7
1970	120.7	25.7	16.5	8.0
1975	118.4	25.3	16.9	10.4

	Stomach	Cervix Uteri	Corpus Uteri
1960	6.7	7.1	7.4
1970	4.1	4.9	4.2
1975	2.9	3.9	3.9

TABLE A20

Trends in Average Annual Iowa Lung Cancer Mortality Age Adjusted Rates for White Males in Selected Counties: 1960, 1970, and 1975 (sexes combined: per 100,000)

	Black Hawk	Dubuque	Pottawattamie	Scott
1960	31.0	38.6	40.7	35.6
1970	44.3	69.0	66.5	62.0
1975	66.7	73.2	69.1	67.4

	Linn	Polk	Woodbury	Johnson
1960	37.2	43.2	34.5	29.8
1970	59.8	58.4	45.5	39.8
1975	67.6	72.9	64.2	58.5

TABLE A21

1969-1977 Iowa Cancer Incidence Analyzed by Individual County

Site (ICDA-8)	1969-1971 WM	1969-1971 WF	1973-1977 WM	1973-1977 WF
1. Total Malignancies (140-209)	14,038	13,619	23,724	22,992
2. Stomach (151)	525	342	697	417
3. Large intestine, except rectum (153)	1,396	1,803	2,323	3,058
4. Rectum and rectosigmoid junction (154)	722	609	1,279	1,058
5. Biliary passages and liver (155, 156)	188	246	287	352
6. Pancreas (157)	484	357	793	637
7. Trachea, bronchus, and lung (162)	2,618	493	4,901	1,121
8. Kidney (189)	399	218	646	403
9. Bladder (188)	944	303	1,739	549
10. Brain and other parts of nervous system (191, 192)	230	193	470	342
11. Other, and unspecified sites (148, 152, 158, 159, 163, 184, 187, 195, 199)	670	739	1,045	1,146
12. Breast (174)	N/A	3,640	N/A	6,325
13. Cervix uteri (180)	0	739	0	965
14. Corpus uteri, etc. (181, 182)	0	1,084	0	2,046
15. Ovary (183)	0	735	0	1,123
16. Prostate (185)	2,470	0	4,394	0

TABLE A22

1969-1977 Iowa Cancer Incidence
Analyzed by County Group

	Site (ICDA-8)	1969-1971 WM	1969-1971 WF	1973-1977 WM	1973-1977 WF
1.	Lip (140)	282	9	391	16
2.	Salivary gland (142)	49	42	74	55
3.	Nasopharynx (147)	22	9	34	13
4.	Other mouth and throat (141, 143, 144, 145, 146, 149)	257	137	430	211
5.	Esophagus (150)	158	49	252	98
6.	Nose, nasal cavities, and sinuses (160)	31	17	49	35
7.	Larynx (161)	288	21	496	71
8.	Melanoma of skin (172)	150	138	342	384
9.	Other skin (173)	402	249	39	34
10.	Eye (190)	29	32	78	67
11.	Thyroid gland (193)	64	163	107	319
12.	Other endocrine glands (194)	14	10	23	17
13.	Bone (170)	29	32	68	57
14.	Connective tissue (171)	67	74	148	103
15.	Hodgkin's Disease (201)	170	124	250	183
16.	Lymphosarcoma and Reticulosarcoma, etc. (200, 202)	461	425	758	753
17.	Multiple myeloma (203)	161	155	301	296
18.	Leukemia (204, 205, 206, 207)	596	432	1,026	735
19.	Breast (174)	24	N/A	38	N/A
20.	Testis (186)	140	0	243	0
21.	Other blood (208, 209)	0	0	1	2

TABLE A23

Average Annual 1968-1977 Iowa Cancer Incidence Age Adjusted Rates (sex specific: per 100,000)

Analyzed by Individual County

Site (ICDA-8)	1969-1971 WM	1969-1971 WF	1973-1977 WM	1973-1977 WF
1. Total Malignancies (140-209)	289.27	262.91	290.74	256.73
2. Stomach (151)	10.19	5.42	8.29	3.76
3. Large intestine, except rectum (153)	28.20	31.60	27.81	30.29
4. Rectum and rectosigmoid junction (154)	14.81	10.81	15.58	10.76
5. Biliary passages and liver (155, 156)	3.88	4.23	3.49	3.41
6. Pancreas (157)	9.72	5.95	9.56	6.15
7. Trachea, bronchus, and lung (162)	56.16	9.67	62.25	12.82
8. Kidney (189)	8.63	4.16	8.33	4.67
9. Bladder (188)	18.95	5.05	20.83	5.25
10. Brain and other parts of nervous system (191, 192)	5.60	4.37	6.77	4.51
11. Other, and unspecified sites (148, 152, 158, 159, 163, 184, 187, 195, 199)	13.62	12.83	12.78	11.12
12. Breast (174)	N/A	73.21	N/A	74.41
13. Cervix uteri (180)	0	17.18	0	12.83
14. Corpus uteri, etc. (181, 182)	0	22.13	0	24.39
15. Ovary (183)	0	15.12	0	13.33
16. Prostate (185)	46.22	0	48.60	0

TABLE A24

Average Annual 1968-1977 Iowa Cancer Incidence Age Adjusted Rates (sex specific: per 100,000)

Analyzed by County Group

Site (ICDA-8)	1969-1971 WM	1969-1971 WF	1973-1977 WM	1973-1977 WF
1. Lip (140)	5.95	0.16	4.85	0.15
2. Salivary gland (142)	1.01	0.87	0.95	0.66
3. Nasopharynx (147)	0.50	0.19	0.47	0.17
4. Other mouth and throat (141, 143, 144, 145, 146, 149)	5.66	2.57	5.59	2.27
5. Esophagus (150)	3.27	0.90	3.17	0.94
6. Nose, nasal cavities, and sinuses (160)	0.62	0.31	0.65	0.42
7. Larynx (161)	6.37	0.44	6.51	0.90
8. Melanoma of skin (172)	3.45	2.97	4.72	4.68
9. Other skin (173)	8.32	4.62	0.50	0.40
10. Eye (190)	0.69	0.74	1.09	0.80
11. Thyroid gland (193)	1.47	3.72	1.51	4.17
12. Other endocrine glands (194)	0.35	0.22	0.30	0.20
13. Bone (170)	0.68	0.63	0.84	0.65
14. Connective tissue (171)	1.41	1.56	1.94	1.18
15. Hodgkin's Disease (201)	3.96	2.59	3.31	2.24
16. Lymphosarcoma and Reticulosarcoma, etc. (200, 202)	9.94	8.06	9.76	8.43
17. Multiple myeloma (203)	3.19	2.78	3.64	2.95
18. Leukemia (204, 205, 206, 207)	12.36	7.85	12.80	7.79
19. Breast (174)	0.52	N/A	0.45	N/A
20. Testis (186)	3.60	0	3.35	0
21. Other blood (208, 209)	0	0	0.01	0.03

TABLE A25

Trends in Average Annual Iowa Selected Cancer Incidence Age Adjusted Rates: 1970 and 1975 (sex specific: per 100,000)

WM	Total	Trachea, Bronchus, and lung	Large Intestine, excl. rectum	Prostate
1970	289.3	56.2	28.2	46.2
1975	290.7	62.2	27.8	48.6

	Pancreas	Stomach	Bladder
1970	9.7	10.2	19.0
1975	9.6	8.3	20.8

WF	Total	Breast	Large Intestine, excl. rectum	Trachea, Bronchus, and lung
1970	262.9	73.2	31.6	9.7
1975	256.7	74.4	30.3	12.8

	Stomach	Cervix Uteri	Corpus Uteri
1970	5.4	17.2	22.1
1975	3.8	12.8	24.4

TABLE A26

Trends in Average Annual Iowa Lung Cancer Incidence Age Adjusted Rates for White Males in Selected Counties: 1970 and 1975 (sex specific: per 100,000)

	Black Hawk	Dubuque	Pottawattamie	Scott
1970	51.3	77.1	67.7	75.7
1975	71.1	73.1	72.8	77.1

	Linn	Polk	Woodbury	Johnson
1970	75.5	67.7	51.2	55.0
1975	83.1	82.6	62.6	60.6

TABLE A27

1968-1977 Ratio of Age Adjusted Incidence to Mortality Rates (sex specific), Iowa

Analyzed by Individual County

Site (ICDA-8)	1969-1971 and 1968-1972		1973-1977	
	WM	WF	WM	WF
1. Total Malignancies (140-209)	1.74	2.07	1.67	2.06
2. Stomach (151)	1.32	1.23	1.29	1.21
3. Large intestine, except rectum (153)	1.69	1.80	1.49	1.68
4. Rectum and rectosigmoid junction (154)	2.66	2.88	3.25	3.46
5. Biliary passages and liver (155, 156)	1.50	1.26	1.10	1.02
6. Pancreas (157)	1.11	1.12	1.02	0.95
7. Trachea, bronchus, and lung (162)	1.22	1.16	1.15	1.19
8. Kidney (189)	1.85	1.76	2.01	1.91
9. Bladder (188)	3.20	2.90	3.42	3.28
10. Brain and other parts of nervous system (191, 192)	1.18	1.14	1.24	1.30
11. Other, and unspecified sites (148, 152, 158, 159, 163, 184, 187, 195, 199)	2.06	1.88	2.26	2.12
12. Breast (174)	N/A	2.74	N/A	2.83
13. Cervix uteri (180)	——	3.41	——	3.18
14. Corpus uteri, etc. (181, 182)	——	4.97	——	5.85
15. Ovary (183)	——	1.52	——	1.40
16. Prostate (185)	2.65	——	2.69	——

TABLE A28

1968-1977 Ratio of Age Adjusted Incidence to Mortality Rates (sex specific), Iowa

Analyzed by County Group

Site (ICDA-8)	1969-1971 and 1968-1972 WM	1969-1971 and 1968-1972 WF	1973-1977 WM	1973-1977 WF
1. Lip (140)	18.03	——	28.53	15.00
2. Salivary gland (142)	2.59	7.25	2.64	2.64
3. Nasopharynx (147)	1.32	1.90	2.04	1.00
4. Other mouth and throat (141, 143, 144, 145, 146, 149)	1.84	2.65	2.10	2.16
5. Esophagus (150)	0.90	1.22	0.89	0.96
6. Nose, nasal cavities, and sinuses (160)	1.68	1.72	3.10	2.10
7. Larynx (161)	3.15	1.91	3.06	3.21
8. Melanoma of skin (172)	2.14	2.56	2.73	3.30
9. Other skin (173)	12.42	14.00	0.62	0.91
10. Eye (190)	5.75	5.29	7.79	5.71
11. Thyroid gland (193)	2.67	6.89	5.59	11.27
12. Other endocrine glands (194)	1.46	0.69	1.15	0.87
13. Bone (170)	0.74	1.02	0.86	1.02
14. Connective tissue (171)	1.50	1.90	2.49	1.84
15. Hodgkin's Disease (201)	1.91	1.80	2.21	2.17
16. Lymphosarcoma and Reticulosarcoma, etc. (200, 202)	1.81	1.65	1.67	1.76
17. Multiple myeloma (203)	1.47	1.65	1.35	1.38
18. Leukemia (204, 205, 206, 207)	1.31	1.32	1.48	1.45
19. Breast (174)	3.71	N/A	3.75	N/A
20. Testis (186)	3.50	——	3.45	——
21. Other blood (208, 209)	——	——	0.01	0.06

TABLE A29

Total White Population by County,
Nebraska, 1970 and 1975

COUNTY ID	COUNTY NAME	Total White Population			
		1970		1975	
		WM	WF	WM	WF
1	ADAMS	14,579	15,786	14,336	15,341
2	ANTELOPE	4,394	4,641	4,470	4,749
3	ARTHUR	313	292	310	252
4	BANNER	509	523	478	468
5	BLAINE	429	415	443	407
6	BOONE	4,107	4,042	4,002	4,043
7	BOX BUTTE	4,680	4,980	4,863	5,135
8	BOYD	1,903	1,833	1,848	1,717
9	BROWN	1,941	2,051	1,937	2,227
10	BUFFALO	15,209	15,844	15,437	15,938
11	BURT	4,478	4,658	4,343	4,531
12	BUTLER	4,739	4,689	4,611	4,610
13	CASS	8,961	9,170	9,675	9,925
14	CEDAR	6,091	6,043	5,854	5,997
15	CHASE	1,985	2,144	2,172	2,314
16	CHERRY	3,431	3,315	3,580	3,369
17	CHEYENNE	5,219	5,513	5,209	5,376
18	CLAY	4,045	4,208	4,093	4,105
19	COLFAX	4,658	4,829	4,689	4,961
20	CUMING	6,008	6,019	5,952	5,989
21	CUSTER	6,873	7,186	6,912	7,172
22	DAKOTA	6,438	6,609	7,559	7,562
23	DAWES	4,679	4,818	4,463	4,708
24	DAWSON	9,635	10,121	10,209	10,618
25	DEUEL	1,335	1,370	1,316	1,301
26	DIXON	3,713	3,695	3,487	3,498
27	DODGE	16,668	18,043	17,345	18,796
28	DOUGLAS	169,959	184,155	178,358	190,534
29	DUNDY	1,442	1,482	1,349	1,406
30	FILLMORE	3,901	4,189	3,834	4,174
31	FRANKLIN	2,251	2,310	2,348	2,359
32	FRONTIER	2,100	1,874	2,092	1,869
33	FURNAS	3,310	3,579	3,441	3,658
34	GAGE	12,465	12,945	11,527	11,771
35	GARDEN	1,438	1,482	1,347	1,474
36	GARFIELD	1,151	1,255	1,171	1,414
37	GOSPER	1,115	1,074	1,203	1,178
38	GRANT	508	508	471	466
39	GREELEY	1,989	2,005	1,895	1,859
40	HALL	20,415	22,295	21,233	23,204
41	HAMILTON	4,421	4,431	4,437	4,372
42	HARLAN	2,140	2,212	2,082	2,269
43	HAYES	787	741	776	751
44	HITCHCOCK	2,027	2,001	2,011	2,105
45	HOLT	6,393	6,524	6,680	6,613
46	HOOKER	461	478	494	495
47	HOWARD	3,396	3,392	3,467	3,441
48	JEFFERSON	5,104	5,311	5,132	5,398
49	JOHNSON	2,838	2,902	2,682	2,773
50	KEARNEY	3,271	3,436	3,225	3,609

TABLE A29 (continued)

COUNTY ID	COUNTY NAME	Total White Population			
		1970		1975	
		WM	WF	WM	WF
51	KEITH	4,130	4,355	4,513	4,825
52	KEYA PAHA	670	668	674	642
53	KIMBALL	2,972	2,988	3,117	2,888
54	KNOX	5,757	5,663	5,497	5,486
55	LANCASTER	80,330	84,956	85,702	91,538
56	LINCOLN	14,376	15,134	16,486	17,208
57	LOGAN	499	489	548	478
58	LOUP	420	433	439	462
59	McPHERSON	312	310	299	335
60	MADISON	13,124	14,113	13,600	14,422
61	MERRICK	4,332	4,416	4,462	4,426
62	MORRILL	2,866	2,919	2,851	3,052
63	NANCE	2,505	2,597	2,324	2,429
64	NEMAHA	4,360	4,527	3,824	4,071
65	NUCKOLLS	3,563	3,829	3,390	3,782
66	OTOE	7,470	8,064	7,198	7,907
67	PAWNEE	2,194	2,272	1,996	2,110
68	PERKINS	1,725	1,692	1,740	1,729
69	PHELPS	4,542	4,996	4,738	5,181
70	PIERCE	4,141	4,342	4,188	4,379
71	PLATTE	12,978	13,575	13,834	14,310
72	POLK	3,138	3,322	3,065	3,299
73	RED WILLOW	5,895	6,258	6,022	6,457
74	RICHARDSON	5,829	6,326	5,464	5,979
75	ROCK	1,067	1,163	1,087	1,174
76	SALINE	6,251	6,478	6,220	6,376
77	SARPY	33,436	31,198	36,095	35,878
78	SAUNDERS	8,561	8,397	9,102	8,759
79	SCOTTS BLUFF	17,516	17,991	16,807	18,592
80	SEWARD	7,302	7,216	8,034	7,331
81	SHERIDAN	3,361	3,620	3,320	3,578
82	SHERMAN	2,382	2,334	2,261	2,247
83	SIOUX	1,015	1,001	1,002	942
84	STANTON	2,860	2,896	3,093	3,316
85	THAYER	3,729	4,021	3,633	3,967
86	THOMAS	479	475	501	460
87	THURSTON	2,492	2,537	2,582	2,625
88	VALLEY	2,848	2,900	2,606	2,758
89	WASHINGTON	6,640	6,654	7,332	7,064
90	WAYNE	5,173	5,117	4,506	4,598
91	WEBSTER	2,627	2,756	2,524	2,661
92	WHEELER	518	532	519	549
93	YORK	6,574	7,013	6,677	7,308
1	STATE TOTAL	702,861	735,961	724,720	759,879

TABLE A30

Total White Population by County Group
Nebraska, 1970 and 1975

County Group	Total White Population			
	1970		1975	
	WM	WF	WM	WF
1.	80,330	84,956	85,702	91,538
2.	203,395	215,353	214,453	226,412
3.	57,701	59,375	58,960	60,660
4.	52,678	54,603	51,468	53,295
5.	42,937	44,475	43,066	45,680
6.	63,783	66,664	64,072	66,281
7.	35,070	36,548	35,201	37,285
8.	26,567	27,194	26,713	27,213
9.	140,400	146,793	145,085	151,515
1. State Total	702,861	735,961	724,720	759,879

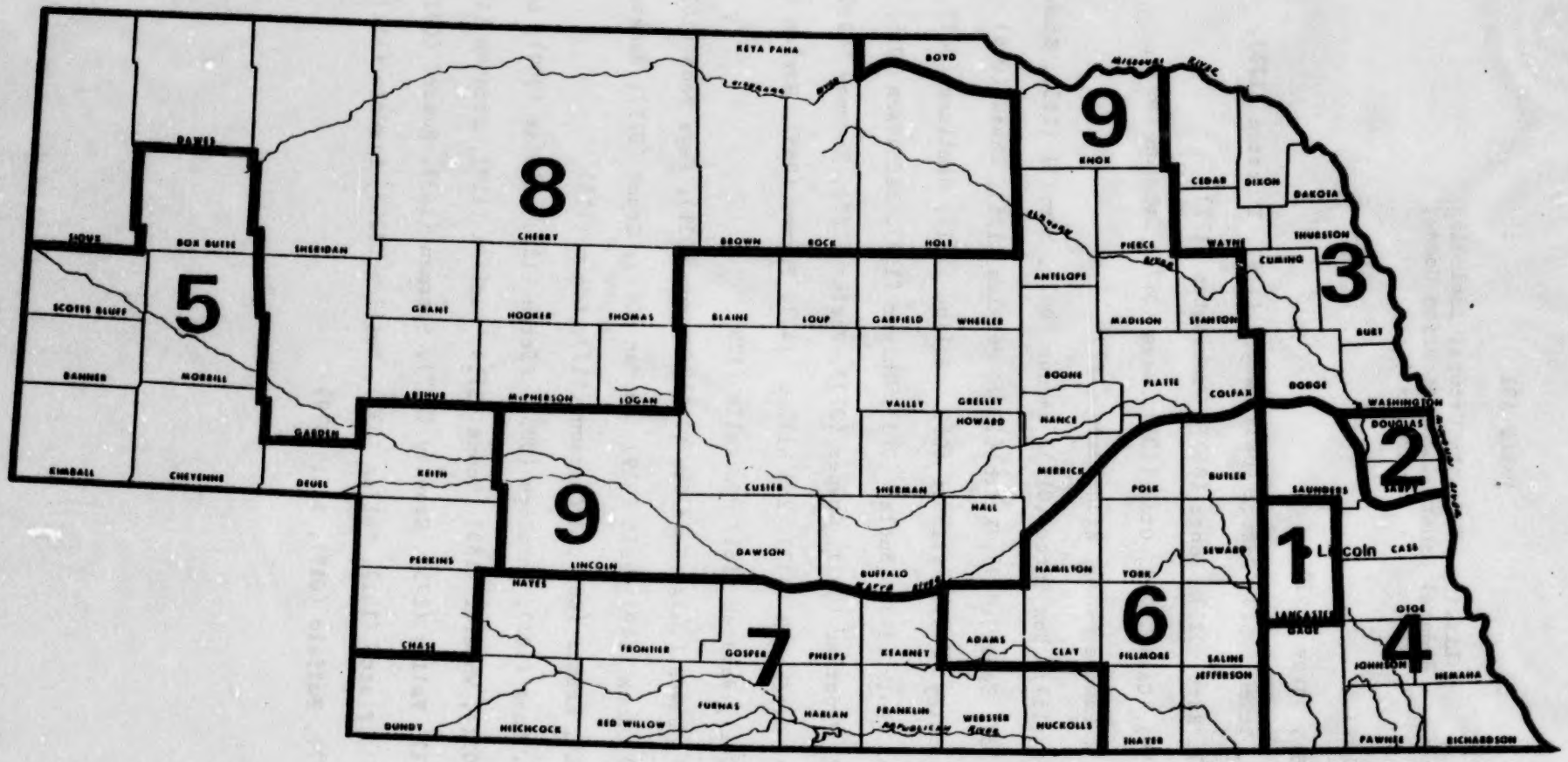

Figure A3

Map of Nebraska County Groups

TABLE A31

Listing of County Groups, Including
Federal County Identification Codes,
Nebraska

1. Lancaster (109)
2. Douglas (055), Sarpy (153)
3. Cedar (027), Dixon (051), Dakota (043), Wayne (179), Thurston (173), Cuming (039), Burt (021), Dodge (053), Washington (177)
4. Saunders (155), Cass (025), Otoe (131), Gage (067), Johnson (097), Nemaha (127), Pawnee (133), Richardson (147)
5. Scotts Bluff (157), Box Butte (013), Banner (007), Morrill (123), Kimball (105), Cheyenne (033), Deuel (049), Keith (101), Perkins (135), Chase (029)
6. Adams (001), Clay (035), Fillmore (059), Saline (151), Hamilton (081), York (185), Seward (159), Polk (143), Butler (023), Thayer (169), Jefferson (095)
7. Hayes (085), Frontier (063), Gosper (073), Phelps (137), Kearney (099), Dundy (057), Hitchcock (087), Red Willow (145), Furnas (065), Harlan (083), Franklin (061), Webster (181), Nuckolls (129)
8. Sioux (165), Dawes (045), Sheridan (161), Cherry (031), Keya Paha (103), Brown (017), Rock (149), Holt (089), Garden (069), Grant (075), Hooker (091), Thomas (171), Arthur (005), McPherson (117), Logan (113)
9. Boyd (015), Knox (107), Antelope (003), Pierce (139), Blaine (009), Loup (115), Garfield (071), Wheeler (183), Boone (011), Madison (119), Stanton (167), Custer (041), Valley (175), Greeley (077), Sherman (163), Howard (093), Nance (125), Platte (141), Colfax (037), Merrick (121), Lincoln (111), Dawson (047), Buffalo (019), Hall (079)

TABLE A32

1968-1977 Nebraska Cancer Deaths
Analyzed by Individual County

	Site (ICDA-8)	1968-1972 WM	1968-1972 WF	1973-1977 WM	1973-1977 WF
1.	Total Malignancies (140-209)	6,997	5,924	7,125	6,081
2.	Stomach (151)	339	255	326	214
3.	Large intestine, except rectum (153)	715	882	765	901
4.	Rectum and rectosigmoid junction (154)	255	162	220	166
5.	Biliary passages and liver (155, 156)	128	172	121	168
6.	Pancreas (157)	443	317	378	362
7.	Trachea, bronchus, and lung (162)	1,701	327	1,956	508
8.	Kidney (189)	172	113	172	129
9.	Bladder (188)	247	95	265	84
10.	Brain and other parts of nervous system (191, 192)	159	153	218	149
11.	Other, and unspecified sites (148, 152, 158, 159, 163, 184, 187, 195, 199)	239	243	305	288
12.	Breast (174)	N/A	1,169	N/A	1,163
13.	Cervix uteri (180)	0	193	0	152
14.	Corpus uteri, etc. (181, 182)	0	239	0	213
15.	Ovary (183)	0	466	0	416
16.	Prostate (185)	825	0	774	0

TABLE A33

1968-1977 Nebraska Cancer Deaths
Analyzed by County Group

	Site (ICDA-8)	1968-1972 WM	1968-1972 WF	1973-1977 WM	1973-1977 WF
1.	Lip (140)	12	1	10	1
2.	Salivary gland (142)	14	18	19	16
3.	Nasopharynx (147)	13	8	11	5
4.	Other mouth and throat (141, 143, 144, 145, 146, 149)	151	41	132	39
5.	Esophagus (150)	155	44	154	33
6.	Nose, nasal cavities, and sinuses (160)	17	9	17	9
7.	Larynx (161)	86	9	65	9
8.	Melanoma of skin (172)	61	57	50	58
9.	Other skin (173)	43	23	37	17
10.	Eye (190)	10	11	17	10
11.	Thyroid gland (193)	19	27	13	28
12.	Other endocrine glands (194)	10	7	9	10
13.	Bone (170)	37	38	32	23
14.	Connective tissue (171)	32	43	25	27
15.	Hodgkin's Disease (201)	112	67	49	43
16.	Lymphosarcoma and Reticulosarcoma, etc. (200, 202)	241	221	215	231
17.	Multiple myeloma (203)	103	92	162	115
18.	Leukemia (204, 205, 206, 207)	423	291	385	324
19.	Breast (174)	10	N/A	4	N/A
20.	Testis (186)	51	0	25	0
21.	Other blood (208, 209)	44	24	48	44

TABLE A34

Average Annual 1968-1977 Nebraska Cancer Mortality Age Adjusted Rates (sex specific: per 100,000)

Analyzed by Individual County

Site (ICDA-8)	1968-1972 WM	1968-1972 WF	1973-1977 WM	1973-1977 WF
1. Total Malignancies (140-209)	163.02	126.93	161.97	121.35
2. Stomach (151)	7.29	4.79	7.08	3.71
3. Large intestine, except rectum (153)	16.02	17.60	16.56	16.36
4. Rectum and rectosigmoid junction (154)	5.69	3.16	4.67	3.04
5. Biliary passages and liver (155, 156)	2.90	3.43	2.73	3.07
6. Pancreas (157)	10.32	6.30	8.45	6.70
7. Trachea, bronchus, and lung (162)	41.28	7.36	47.02	11.12
8. Kidney (189)	4.16	2.52	4.05	2.43
9. Bladder (188)	5.33	1.64	5.48	1.40
10. Brain and other parts of nervous system (191, 192)	4.37	3.84	5.99	3.72
11. Other, and unspecified sites (148, 152, 158, 159, 163, 184, 187, 195, 199)	5.71	4.85	7.12	5.47
12. Breast (174)	N/A	26.81	N/A	25.10
13. Cervix uteri (180)	0	4.76	0	3.36
14. Corpus uteri, etc. (181, 182)	0	4.98	0	4.12
15. Ovary (183)	0	10.75	0	9.05
16. Prostate (185)	16.49	0	15.03	0

TABLE A35

Average Annual 1968-1977 Nebraska Cancer
Mortality Age Adjusted Rates
(sex specific: per 100,000)

Analyzed by County Group

Site (ICDA-8)	1968-1972 WM	1968-1972 WF	1973-1977 WM	1973-1977 WF
1. Lip (140)	0.27	0.02	0.23	0.02
2. Salivary gland (142)	0.36	0.33	0.39	0.25
3. Nasopharynx (147)	0.34	0.17	0.29	0.12
4. Other mouth and throat (141, 143, 144, 145, 146, 149)	3.68	0.85	3.25	0.83
5. Esophagus (150)	3.73	0.94	3.67	0.61
6. Nose, nasal cavities, and sinuses (160)	0.40	0.20	0.42	0.15
7. Larynx (161)	2.13	0.18	1.50	0.22
8. Melanoma of skin (172)	1.60	1.39	1.27	1.17
9. Other skin (173)	0.92	0.45	0.78	0.27
10. Eye (190)	0.25	0.27	0.36	0.21
11. Thyroid gland (193)	0.46	0.55	0.27	0.50
12. Other endocrine glands (194)	0.29	0.17	0.21	0.25
13. Bone (170)	0.86	0.83	0.80	0.43
14. Connective tissue (171)	0.79	0.98	0.57	0.59
15. Hodgkin's Disease (201)	2.99	1.56	1.29	0.93
16. Lymphosarcoma and reticulosarcoma, etc. (200, 202)	5.83	4.50	5.10	4.60
17. Multiple myeloma (203)	2.42	1.93	3.67	2.20
18. Leukemia (204, 205, 206, 207)	10.33	6.24	8.68	6.18
19. Breast (174)	0.24	N/A	0.10	N/A
20. Testis (186)	1.42	0	0.61	0
21. Other blood (208, 209)	1.00	0.50	1.05	0.80

TABLE A36

Trends in Average Annual Nebraska Selected Cancer Mortality Age Adjusted Rates: 1960, 1970, and 1975 (sexes combined: per 100,000)

WM	Total	Trachea, Bronchus, and lung	Large Intestine, excl. rectum	Prostate
1960	157.5	27.7	16.6	19.0
1970	173.6	43.5	17.2	18.4
1975	172.8	49.5	17.9	16.7

	Pancreas	Stomach	Bladder
1960	9.5	15.9	5.5
1970	11.0	7.9	5.8
1975	9.1	7.7	6.0

WF	Total	Breast	Large Intestine, excl. rectum	Trachea, Bronchus, and lung
1960	123.8	24.6	17.1	4.7
1970	120.8	25.8	16.5	7.1
1975	115.4	24.1	15.3	10.7

	Stomach	Cervix Uteri	Corpus Uteri
1960	7.7	6.1	5.4
1970	4.5	4.6	4.7
1975	3.4	3.2	3.9

TABLE A37

Trends in Average Annual Nebraska Lung Cancer Mortality Age Adjusted Rates for White Males in Selected Counties: 1960, 1970, and 1975 (sexes combined: per 100,000)

	Douglas	Lancaster	Sarpy	Dakota
1960	42.5	29.6	33.8	42.5
1970	59.8	44.9	63.7	82.9
1975	72.6	47.9	52.7	72.1

	Hall
1960	33.3
1970	54.9
1975	54.3

TABLE A38

Total White Population by County
Kansas, 1970 and 1975

COUNTY ID	COUNTY NAME	Total White Population			
		1970		1975	
		WM	WF	WM	WF
1	ALLEN	7,027	7,746	7,079	7,769
2	ANDERSON	4,110	4,356	4,120	4,307
3	ATCHISON	8,761	9,125	8,528	8,894
4	BARBER	3,404	3,529	3,334	3,423
5	BARTON	14,588	15,565	14,733	15,607
6	BOURBON	6,871	7,874	7,019	8,269
7	BROWN	5,350	5,797	5,290	5,770
8	BUTLER	18,818	19,469	19,285	20,124
9	CHASE	1,622	1,757	1,711	1,784
10	CHAUTAUQUA	2,207	2,357	2,221	2,392
11	CHEROKEE	10,088	11,056	10,102	10,934
12	CHEYENNE	2,052	2,195	1,935	2,139
13	CLARK	1,392	1,495	1,379	1,469
14	CLAY	4,780	5,087	4,776	5,027
15	CLOUD	6,358	7,057	6,269	6,826
16	COFFEY	3,563	3,856	3,731	4,058
17	COMANCHE	1,308	1,393	1,318	1,477
18	COWLEY	16,034	17,566	15,701	16,794
19	CRAWFORD	17,892	19,327	17,092	19,157
20	DECATUR	2,397	2,583	2,420	2,508
21	DICKINSON	9,585	10,287	10,225	10,852
22	DONIPHAN	4,354	4,420	4,441	4,381
23	DOUGLAS	27,441	26,851	30,497	29,461
24	EDWARDS	2,165	2,382	2,147	2,433
25	ELK	1,820	2,026	1,825	2,010
26	ELLIS	12,162	12,529	12,464	12,889
27	ELLSWORTH	3,008	3,120	3,127	3,068
28	FINNEY	9,317	9,573	10,732	11,021
29	FORD	10,784	11,419	11,499	11,974
30	FRANKLIN	9,431	10,203	9,467	10,231
31	GEARY	13,354	10,968	12,895	13,045
32	GOVE	1,963	1,974	1,945	1,989
33	GRAHAM	2,312	2,274	2,262	2,168
34	GRANT	2,989	2,956	3,449	3,313
35	GRAY	2,232	2,286	2,448	2,458
36	GREELEY	914	891	914	830
37	GREENWOOD	4,408	4,680	4,338	4,623
38	HAMILTON	1,378	1,366	1,484	1,402
39	HARPER	3,712	4,118	3,598	4,034
40	HARVEY	12,794	13,964	13,601	14,853
41	HASKELL	1,864	1,804	2,066	2,029
42	HODGEMAN	1,345	1,291	1,364	1,283
43	JACKSON	4,906	5,041	5,346	5,434
44	JEFFERSON	5,936	5,938	6,527	6,526
45	JEWELL	2,946	3,106	2,853	2,833
46	JOHNSON	107,130	112,272	116,324	120,286
47	KEARNEY	1,518	1,515	1,705	1,647
48	KINGMAN	4,296	4,554	4,266	4,578
49	KIOWA	1,972	2,095	1,930	2,074
50	LABETTE	11,637	12,786	11,652	12,397

COUNTY ID	COUNTY NAME	Total White Population			
		1970		1975	
		WM	WF	WM	WF
51	LANE	1,337	1,367	1,292	1,379
52	LEAVENWORTH	25,738	22,388	26,772	22,840
53	LINCOLN	2,225	2,346	2,163	2,333
54	LINN	3,760	3,954	4,036	4,233
55	LOGAN	1,878	1,877	1,926	1,803
56	LYON	15,227	16,113	15,097	16,069
57	MC PHERSON	11,930	12,673	12,127	13,129
58	MARION	6,720	7,126	6,664	6,983
59	MARSHALL	6,364	6,753	6,386	7,057
60	MEADE	2,437	2,446	2,519	2,423
61	MIAMI	8,914	9,742	9,525	10,513
62	MITCHELL	3,791	4,165	3,619	4,209
63	MONTGOMERY	17,338	19,461	17,141	19,068
64	MORRIS	3,137	3,259	3,232	3,435
65	MORTON	1,789	1,779	1,798	1,797
66	NEMAHA	5,761	5,960	5,754	5,837
67	NEOSHO	8,854	9,579	8,847	9,417
68	NESS	2,367	2,419	2,294	2,410
69	NORTON	3,508	3,733	3,341	3,524
70	OSAGE	6,595	6,775	6,717	6,992
71	OSBORNE	3,061	3,309	3,004	3,140
72	OTTAWA	2,983	3,188	2,917	3,259
73	PAWNEE	4,052	4,184	4,207	4,159
74	PHILLIPS	3,863	3,991	3,890	4,113
75	POTTAWATOMIE	5,833	5,899	6,156	6,251
76	PRATT	4,653	5,169	4,693	4,978
77	RAWLINS	2,189	2,189	2,176	2,133
78	RENO	28,452	30,841	29,458	31,636
79	REPUBLIC	4,113	4,345	3,877	4,142
80	RICE	5,878	6,271	5,773	6,086
81	RILEY	30,384	22,033	30,987	24,597
82	ROOKS	3,671	3,907	3,318	3,725
83	RUSH	2,497	2,608	2,419	2,542
84	RUSSELL	4,572	4,759	4,358	4,568
85	SALINE	21,008	23,490	21,808	24,846
86	SCOTT	2,743	2,850	2,855	2,937
87	SEDGWICK	155,490	163,732	152,226	160,383
88	SEWARD	7,452	7,615	7,799	7,848
89	SHAWNEE	69,963	72,957	67,151	71,265
90	SHERIDAN	1,931	1,924	1,951	1,994
91	SHERMAN	3,826	3,948	4,035	4,125
92	SMITH	3,250	3,485	3,149	3,494
93	STAFFORD	2,813	3,108	2,769	3,150
94	STANTON	1,167	1,075	1,270	1,221
95	STEVENS	2,101	2,035	2,363	2,239
96	SUMNER	11,221	12,037	11,180	12,039
97	THOMAS	3,706	3,807	3,999	4,057
98	TREGO	2,158	2,265	2,148	2,329
99	WABAUNSEE	3,148	3,166	3,288	3,340
100	WALLACE	1,093	1,087	1,045	1,049
101	WASHINGTON	4,545	4,666	4,327	4,631
102	WICHITA	1,678	1,597	1,811	1,622
103	WILSON	5,368	5,879	5,430	5,844

TABLE A38 (continued)

COUNTY ID	COUNTY NAME	Total White Population			
		1970		1975	
		WM	WF	WM	WF
104	WOODSON	2,324	2,409	2,080	2,224
105	WYANDOTTE	72,284	77,787	67,632	72,594
1	STATE TOTAL	1,043,435	1,085,406	1,054,233	1,098,861

TABLE A39

Total White Population by County Group,
Kansas, 1970 and 1975

County Group	Total White Population			
	1970		1975	
	WM	WF	WM	WF
1.	179,414	190,059	183,956	192,880
2.	69,963	72,957	67,151	71,265
3.	155,490	163,732	152,226	160,383
4.	88,247	85,520	93,155	89,143
5.	28,589	30,079	27,823	29,794
6.	52,595	56,915	53,774	58,596
7.	71,177	78,088	70,264	76,817
8.	115,992	109,293	116,736	114,464
9.	129,717	140,693	132,662	144,148
10.	102,130	107,055	103,504	108,410
11.	50,121	51,015	52,982	52,961
1. State Total	1,043,435	1,085,406	1,054,233	1,098,861

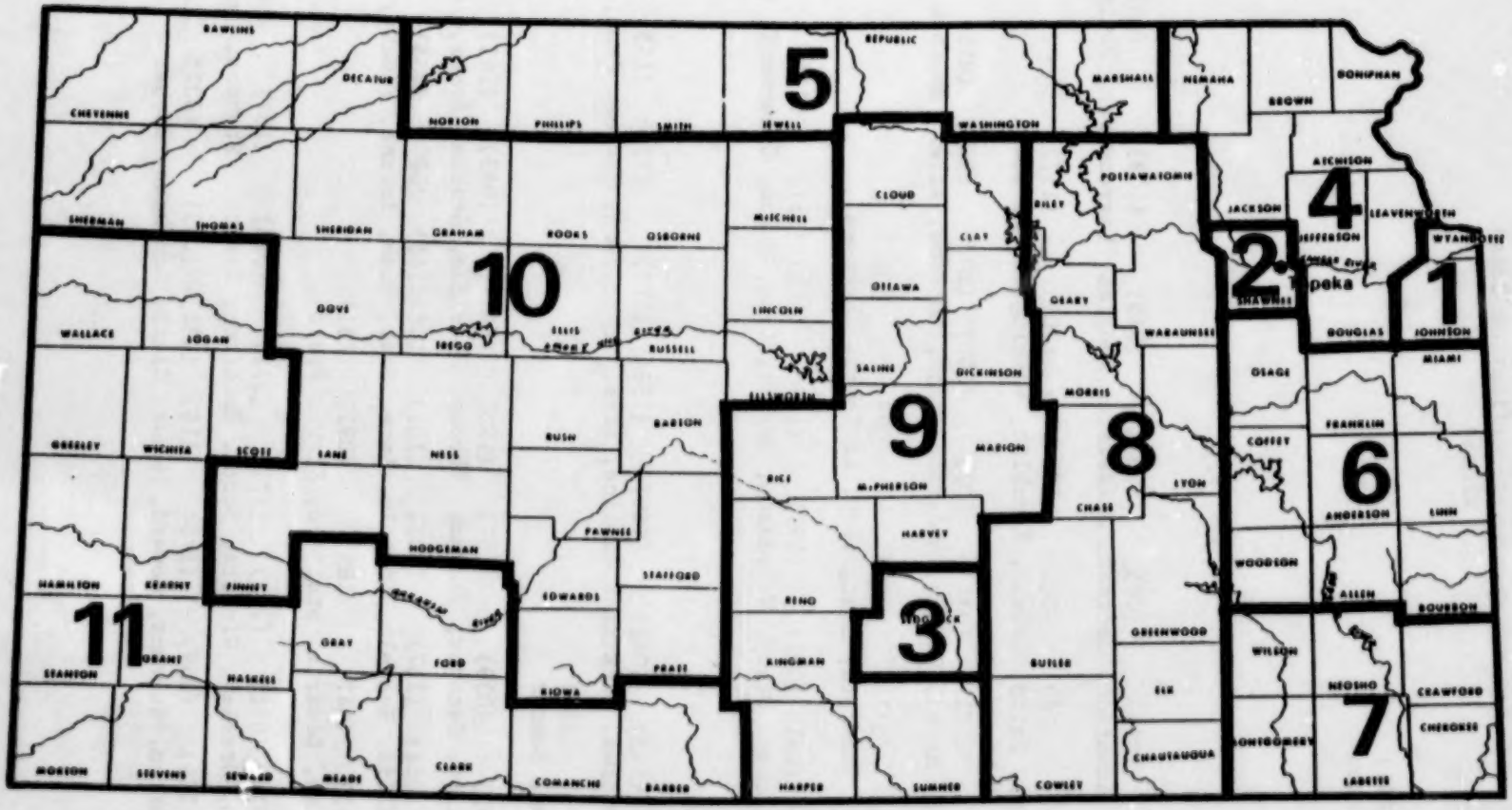

Figure A4

Map of Kansas County Groups

TABLE A40

Listing of County Groups, Including
Federal County Identification Codes,
Kansas

1. (209) (091)
Wyandotte, Johnson

2. (177)
Shawnee

3. (173)
Sedgwick

4. (131) (013) (005) (085) (087) (045) (103) (043)
Nemaha, Brown, Atchison, Jackson, Jefferson, Douglas, Leavenworth, Doniphan

5. (137) (147) (183) (089) (157) (201) (117)
Norton, Phillips, Smith, Jewell, Republic, Washington, Marshall

6. (139) (059) (121) (031) (003) (107) (207) (001) (011)
Osage, Franklin, Miami, Coffey, Anderson, Linn, Woodson, Allen, Bourbon

7. (205) (133) (037) (125) (099) (021)
Wilson, Neosho, Crawford, Montgomery, La Bette, Cherokee

8. (149) (161) (061) (197) (127) (111) (017) (073) (015) (035)
Pottawatomie, Riley, Geary, Wabaunsee, Morris, Lyon, Chase, Greenwood, Butler, Cowley,
(049) (019)
Elk, Chautauqua

9. (029) (027) (143) (041) (169) (159) (113) (115) (155) (079)
Cloud, Clay, Ottawa, Dickinson, Saline, Rice, Mc Pherson, Marion, Reno, Harvey,
(095) (077) (191)
Kingman, Harper, Sumner

10. (023) (153) (039) (181) (193) (179) (065) (163) (141) (123)
Cheyenne, Rawlins, Decatur, Sherman, Thomas, Sheridan, Graham, Rooks, Osborne, Mitchell,
(063) (195) (051) (167) (105) (101) (135) (165) (009) (055) (053)
Gove, Trego, Ellis, Russell, Lincoln, Lane, Ness, Rush, Barton, Finney, Ellsworth,
(083) (145) (047) (185) (097) (151)
Hodgeman, Pawnee, Edwards, Stafford, Kiowa, Pratt

11. (199) (109) (071) (203) (171) (075) (093) (187) (067) (081)
Wallace, Logan, Greeley, Wichita, Scott, Hamilton, Kearny, Stanton, Grant, Haskell,
(069) (057) (129) (189) (175) (119) (025) (033) (007)
Gray, Ford, Morton, Stevens, Seward, Meade, Clark, Comanche, Barber

TABLE A41

1973-1977 Kansas Cancer Deaths
Analyzed by Individual County

	Site (ICDA-8)	1973-1977 WM	1973-1977 WF
1.	Total Malignancies (140-209)	10,510	8,495
2.	Stomach (151)	415	231
3.	Large intestine, except rectum (153)	1,001	1,201
4.	Rectum and rectosigmoid junction (154)	246	210
5.	Biliary passages and liver (155, 156)	110	187
6.	Pancreas (157)	568	460
7.	Trachea, bronchus, and lung (162)	3,276	823
8.	Kidney (189)	286	155
9.	Bladder (188)	405	152
10.	Brain and other parts of nervous system (191, 192)	294	240
11.	Other, and unspecified sites (148, 152, 158, 159, 163, 184, 187, 195, 199)	404	425
12.	Breast (174)	N/A	1,717
13.	Cervix uteri (180)	0	253
14.	Corpus uteri, etc. (181, 182)	0	327
15.	Ovary (183)	0	559
16.	Prostate (185)	1,161	0

TABLE A42

1973-1977 Kansas Cancer Deaths
Analyzed by County Group

	Site (ICDA-8)	1973-1977 WM	1973-1977 WF
1.	Lip (140)	7	4
2.	Salivary gland (142)	26	9
3.	Nasopharynx (147)	20	10
4.	Other mouth and throat (141, 143, 144, 145, 146, 149)	184	64
5.	Esophagus (150)	174	62
6.	Nose, nasal cavities, and sinuses (160)	23	14
7.	Larynx (161)	117	13
8.	Melanoma of skin (172)	149	90
9.	Other skin (173)	77	44
10.	Eye (190)	11	4
11.	Thyroid gland (193)	25	23
12.	Other endocrine glands (194)	13	8
13.	Bone (170)	61	38
14.	Connective tissue (171)	44	36
15.	Hodgkin's Disease (201)	83	44
16.	Lymphosarcoma and Reticulosarcoma, etc. (200, 202)	317	300
17.	Multiple myeloma (203)	153	149
18.	Leukemia (204, 205, 206, 207)	518	379
19.	Breast (174)	16	N/A
20.	Testis (186)	43	0
21.	Other blood (208, 209)	50	40

TABLE A43

Average Annual 1973-1977 Kansas Cancer
Mortality Age Adjusted Rates
(sex specific: per 100,000)

Analyzed by Individual County

	Site (ICDA-8)	1973-1977 WM	1973-1977 WF
1.	Total Malignancies (140-209)	168.09	116.69
2.	Stomach (151)	6.44	2.83
3.	Large intestine, except rectum (153)	15.47	14.95
4.	Rectum and rectosigmoid junction (154)	3.87	2.51
5.	Biliary passages and liver (155, 156)	1.75	2.43
6.	Pancreas (157)	8.97	5.80
7.	Trachea, bronchus, and lung (162)	54.55	12.36
8.	Kidney (189)	4.79	2.09
9.	Bladder (188)	6.05	1.67
10.	Brain and other parts of nervous system (191, 192)	5.37	3.99
11.	Other, and unspecified sites (148, 152, 158, 159, 163, 184, 187, 195, 199)	6.44	5.42
12.	Breast (174)	N/A	25.19
13.	Cervix uteri (180)	0	3.94
14.	Corpus uteri, etc. (181, 182)	0	4.42
15.	Ovary (183)	0	8.13
16.	Prostate (185)	16.29	0

TABLE A44

Average Annual 1973-1977 Kansas Cancer
Mortality Age Adjusted Rates
(sex specific: per 100,000)

Analyzed by County Group

	Site (ICDA-8)	1973-1977 WM	1973-1977 WF
1.	Lip (140)	0.12	0.06
2.	Salivary gland (142)	0.40	0.10
3.	Nasopharynx (147)	0.33	0.14
4.	Other mouth and throat (141, 143, 144, 145, 146, 149)	3.05	0.87
5.	Esophagus (150)	2.88	0.82
6.	Nose, nasal cavities, and sinuses (160)	0.37	0.20
7.	Larynx (161)	1.91	0.18
8.	Melanoma of skin (172)	2.66	1.36
9.	Other skin (173)	1.08	0.48
10.	Eye (190)	0.19	0.06
11.	Thyroid gland (193)	0.39	0.27
12.	Other endocrine glands (194)	0.25	0.11
13.	Bone (170)	0.98	0.53
14.	Connective tissue (171)	0.73	0.53
15.	Hodgkin's Disease (201)	1.43	0.73
16.	Lymphosarcoma and Reticulosarcoma, etc. (200, 202)	5.23	4.06
17.	Multiple myeloma (203)	2.42	1.96
18.	Leukemia (204, 205, 206, 207)	8.24	5.20
19.	Breast (174)	0.24	N/A
20.	Testis (186)	0.72	0
21.	Other blood (208, 209)	0.80	0.50

TABLE A45

Trends in Average Annual 1973-1977 Kansas Selected Cancer Mortality Age Adjusted Rates: 1960 and 1975 (sexes combined: per 100,000)

WM		Total	Trachea, Bronchus, and lung	Large Intestine, excl. rectum	Prostate
	1960	143.9	29.5	13.0	16.5
	1975	179.2	57.5	16.7	18.1

		Pancreas	Stomach	Bladder
	1960	8.2	11.5	4.9
	1975	9.6	6.9	6.6

WF		Total	Breast	Large Intestine, excl. rectum	Trachea, Bronchus, and lung
	1960	115.1	23.1	14.3	5.0
	1975	113.8	24.2	14.0	11.9

		Stomach	Cervix Uteri	Corpus Uteri
	1960	5.6	7.2	6.0
	1975	2.6	3.8	4.2

TABLE A46

Trends in Average Annual 1973-1977 Kansas Lung Cancer Mortality Age Adjusted Rates for White Males in Selected Counties: 1960 and 1975 (sexes combined: per 100,000)

	Cherokee	Wyandotte	Johnson	Sedgwick
1960	47.1	45.6	31.5	38.8
1975	95.6	78.0	58.1	69.3

	Shawnee	Crawford	Douglas
1960	35.1	38.8	24.0
1975	60.3	75.0	49.9